

MICHALOWICZ-WOJCZYNSKA, Ewa

Renal venous thrombosis in children. Pediat. pol. 37 no.9:935-942
S '62.

1. Z I Kliniki Chorob Dzieci AM w Warszawie Kierownik: prof. dr med.
R. Baranski.
(RENAL VEINS) (THROMBOPHELEBITIS)

157 AND 158 CODES

PROCESSES AND PROPERTIES INDEX

159 AND 160 CODES

21

ca

Synthetic lubricating oils Janina Michalska.
Przemysl Chem. 8, 554-52 (1948).—The chem. structure
 and its influence on the properties of lubricating oils are
 described and the principal chem. processes used in the
 manuf. of synthetic lubricating oils are reviewed.
 Frank Gonet

COMMON ELEMENTS

161-164 CODES

165-168 CODES

169-172 CODES

173-176 CODES

177-180 CODES

181-184 CODES

185-188 CODES

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2993-2996 CODES

2997-3000 CODES

3001-3004 CODES

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3009-3012 CODES

3013-3016 CODES

3017-3020 CODES

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1066. NEW METHODS FOR IMPROVEMENT OF LUBRICATING OILS. Michalowska, J. (Nafta, 1949, vol. 5, 24-28; abstr. in Chem. Abstr., 1949, vol. 43, 219).

Literature and patents on pour depressants, viscosity-index improvers, anti-oxidants, extreme-pressure agents, and oiliness carriers are reviewed.

P. I. A.

*Chemistry + Chemical
Technology*

536 421 4 621 891 27
539
Michalowska J. Manufacture of Products Lowering the Freezing
Point of Lubricating Oils.
(Oczyszczanie produktów obniżających temperaturę krzepnie-
cia olejów smarowych) Przemysł Chemiczny No 2 3 1950 pp
120 124, 4 tabs

Products lowering the freezing point of lubricating oils were
obtained through condensation of chloroparaffin with aromatic hy-
drocarbons in the presence of $AlCl_3$. Methods of chloroparaffin
production and special preparation for the condensation process
are described. The Parafflow type product thus obtained is, in a
quantity of 0.5 - 1%, added to lubricating oils. Results of lowering
the melting point of a number of oils are presented.

CA

72

Anticorrosion additives for lubricating oils. J. Michalski, *Environ. Chem.* 6(20), 12-20(1983). — The theory of corrosion and the chemistry of various kinds of inhibitors are reviewed. Frank Gossel

22

CA

Additives for lowering the melting point of lubricating oils.
J. Michalski and J. W. Chas. G. (20), 120-4 (1930). —
Preparation of additives of the "Paraffin-type" by the con-
densation of chloroparaffins with aromatic hydrocarbons is
described. The addition of 0.5-1.0% of the condensation
product to different lubricating oils lowered the m.p.
around 20° Frank Conet

BA
B-1

Synthetic core adhesives. J. Michalski and J. Kinschowski
(J. Polym. Sci., 1963, 6, 189-202). Of 8 synthetic adhesives
for metal bonding, the most promising was chlorinated quaternary oil.
The oil trickles down a Ni-plated Fe tube against a current of
Cl₂, both preheated to 80°, at rates of flow giving a product con-
taining 30-35% of Cl. The temp. should not exceed 140°. Air is
blown into the chlorinated oil at 200° until the desired η and d
(usually 3-4° Engler and 1.050-1.080) are achieved.
R. Tausch.

MICHALOWSKA, J.

Polish Technical Abst.
No. 4, 1953
Chemistry and Chemical
Technology

2435

532.133:542.952.7:547.313.4:621.892.5

Michalowska J. Isobutylene Polymers as Products Raising
the Viscosity Indicators of Lubricants.

Polimery izobutyleno jako produkty podwyższające
wskazniki lepkościowe olejów smarowych. Przemysł
Chemiczny. No. 1, 1953, pp. 36-40, 1 fig., 7 tabs.
(Bul. Plac. Nauk. Bad. Min. Przem. Chem.).

A method of obtaining isobutylene polymers of a molecular
weight of from 25000 to 40000 capable of increasing
the viscosity indicators of lubricants is described.
The methods of molecular weight of determination of the
products obtained are outlined, and the results of
investigation over the efficiency of their influence
on different kinds of lubricants are given.

5-21-54

mf

MICHALOWSKA, J.

Lubricants from chlorinated Fischer-Tropsch Kogasin.
Michalowska, *Przemysl Chem.* 3, 150-3(1953).—
Chlorinated Kogasin, regardless of the degree of chlorination, is light-yellow to black, but the color has no effect on the properties of the lubricants. The chlorination is a photochem. reaction, and there is no connection between the rate and the degree of chlorination. The pour point decreases proportionally with increased degree of chlorination. The lower the degree of chlorination, the higher is the viscosity index. To obtain lubricants having high viscosity index and low pour point, Kogasin should be chlorinated to a Cl content of 20-30%. Gene A. Wozny

MICHAŁOWSKA, J.

3. Polysobutylene rubber. I. Michelena, France.
Chim. 9, 70-82 (1963), English summary. A review with
14 references.

2 May

MICHALOWSKA, J.

Influence of the quality of oil on the wear of a motor. p.91. (TECHNIKA MOTORYZACYJAN,
Warszawa, Vol. 5, No. 3, Mar. 1955)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 6, June 1955, Uncl.

MICHALOWSKA, J.

Fuel oils. p. 15^R.

MO"ORYZACJA. Warszawa. Vol. 10, no.5, May 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.

POLAND/Chemical Technology - Processing of Natural Gases and
Petroleum. Motor and Rocket Fuels. Lubricants.

H-23

Abs Jour : Ref Zhur - Khimiya, No 24, 1958, 82993

Author : Michalowska, J.

Inst :

Title : The Volume, Organization and Technique of Investigation
of Fuel and Oils in the USSR.

Orig Pub : Techn. matoryz., 1958, 8, No 3, 83-88.

Abstract : No abstract.

Card 1/1

MICHALOWSKA, J.

POLAND / Chemical Technology. Chemical Products and H-23
Their Applications. Chemical Processing of
Natural Gases and Petroleum. Motor and Rocket
Fuel Lubricants.

Abs Jour: Ref Zhur-Khimiya, No 3, 1959, 9798.

Author : Michalowska, J.

Inst : Not given.

Title : A Review of Methods for Mechanical Testing of
Oils for Driving Gears.

Orig Pub: Techn. Motoryz., 1958, 8, No 6, 242-245.

Abstract: A brief description and evaluation of methods
for testing oil by stages: 1) laboratory tests
by the use of 4-ball-apparatus, Timken, Falex
and SAE apparatuses; 2) methods copying con-
ditions of use in gear transmission, ball-bear-
ing, etc.; 3) laboratory-highway tests to de-

Card 1/2

MICHALOWSKA, Janina, mgr. inz.

Lubrication of combustion engines in the light of the technological achievements. Przegl techn 79 no.6:209-211 Mr '58.

MICHALOWSKA, Janina, mgr. inz.

The influence of Bardahl upon the working time of combustion engines. Przegl techn 79 no.13:594-595 Je '58.

S/081/62/000/018/040/059
B166/B16C

AUTHOR: Michałowska, Janina

TITLE: The use of radioisotopes for studying the antifriction properties of lubricating oils

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1962, 454, abstract 184216 (Pierwsze krajowe sympoz. zastosowań izotopów techn., Rogów, 8-12 czer., 1960. Warszawa, no. 41, 1961, [Pol.; summaries in Rus. and Eng.])

TEXT: Techniques are given for using radioisotopes to study the oiliness of mineral oils on a laboratory installation and in an automobile engine. The advantages and disadvantages of this method of evaluation are enumerated, and it is shown that it is particularly suitable for the conditions of operation applicable to the motor transport pool of the Polish People's Republic. 19 references. [Abstractor's note: Complete translation.]

Card 1/1

MIKHAILOVSKII, Canina, rgr 12.

Oil in the combustion engine. Motor 11 no.45:7 11 "12."

MICHALOWSKA, J., mgr inz.

Please, notice what to use for lubrication and what to lubricate.
Motor 11 no.48:7 2 D '62.

MICHALOWSKA, Janina, mgr inz.

Fluids for automobile coolers. Motor 11 nc.49:6 9 D '62.

MICHALOWSKA, J., mgr ins.

Please, notice what to use as lubricants and what to lubricate.
Motor 11 no.52:6, 7 30 D '62.

MICHALOWSKA, J., mgr inz.

Please, notice what and with what to lubricate; changes of the properties of the motor oil. Motor 12 no.1:7 6 Ja '63.

MICHALOWSKA, J., mgr inz.

Please, notice what to use as lubricants and what to lubricate;
sediments in combustion engines. (10) Motor 12 no.3:7 20 Ja
'63.

BRZOSKO, Witold; MICHALOWSKI, Adam

A case of generalized cytomegalic inclusion disease.
Pediat. polska 31 no.12:1363-1369 Dec 56.

1. Z Zakładu Anatomii Patologicznej A.M. w Warszawie
Kierownik: prof. dr. med. L. Paszkiewicz, ul. Chalubinskiego
5.

(VIRUS DISEASES
inclusion dis., case report)

GARBNER, Mieczyslaw; MICHALOWSKI, Adam

Primary cancer of the liver in connection with the observation of two cases of that disease. Polski tygod. lek. 13 no.9:306-311 3 Mar 58.

1. (Z IV Kliniki Chorob Wewnętrznych A.M. w Warszawie; kierownik; prof. dr Z. Askanas i z Zakładu Anatomii Patologicznej A.M. w Warszawie; kierownik: prof. dr L. Paszkiewicz) Warszawa, Ociski 6, IV Klin. Chor. Wewn. A.M.

(LIVER NEOPLASMS, case reports
primary cancer (Pol))

SZCZYGIEL, Bruno; ZAWADOWSKI, Jerzy; MICHALOWSKI, Adam

Remote results of ligation of the hepatic artery in dogs. Polski
tyg.lek.15 no.8:281-285 22 F '60.

1. Z Zakładn Chirurgii Doswiadczalnej P.A.N. w Warszawie; kierow-
nik: doc.dr.med. Jan Nielubowicz.
(HEPATIC ARTERY physiol.)

JASINSKA, Janina; MICHALOWSKI, Adam.

The effect of radiation and chemotherapy on the incorporation of thymidine into the cells of Ehrlich carcinoma and rat bone marrow in vitro. Nowotwory 12 no.4:321-324 '62.

1. Z Zakładu Izotopowego Instytutu Onkologii w Warszawie Kierownik:
prof. dr med. W. Jasinski Dyrektor: prof. dr med. W. Jasinski.
(RADIATION EFFECTS) (ANTINEOPLASTIC AGENTS) (THYMIDINE)
(CARCINOMA, EHRLICH TUMOR) (BONE MARROW) (DNA) (NEOPLASM)

DAVIDSON, 345 7th; RICHARDSON, 345th

This work was supported by the National Science Foundation Grant DMR-80-19674.

1. S. Krawców, Katedra Chemii, Zakład Jądrowych Reakcji Chemicznych, Instytut
Chimii Fizycznej, Warszawa. Kierownik: prof. dr. hab. J. Jędrzejak.

MADALINSKI, Kazimierz; BRZOSKO, Witold; NOWOSIANSKI, Adam;
MICHALOWSKI, Adam; JASINSEA, Janina

Studies on phytohaemagglutinin. I. The identity of agglutinating
and mitogenic fractions. Med. dosw. mikrobiol. 17 no.2:173-177
'65.

1. Z Pracowni Patologii Państwowego Zakładu Higieny w Warszawie
(Kierownik: dr. med. A. Nowosiński) i Zakładu Radiobiologii
Instytutu Onkologii w Warszawie (Kierownik: dr. med. A. Micha-
łowski).

MICHALOWSKI, Adam; JASINSKA, Janina; BRZOSKO, Witold J.; NOWOSLAWSKI, Adam

Studies on phytohaemagglutinin. II. Cellular localization of phytohemagglutinins in human leucocyte cultures by immunohistochemical methods. Med. dosw. mikrobiol. 17 no.2:179-183 1965.

1. Z Zakladu Radiobiologii Instytutu Onkologii w Warszawie (Kierownik: dr. med. A. Michalowski) i Pracowni Patologii Panstwowego Zakladu Higieny w Warszawie (Kierownik: dr. med. A. Nowoslowski).

MICHALOWSKI, B.

Leon Wernic. Przegl. dermat. 4 no.1:1-3 Ja-F '54.
(OBITUARIES,

*Wernic, Leon)

MICHALOWSKI, Bohdan; GUTAKER, Mirosława

Oral therapy of dermatomycoses with griseofulvin. (Preliminary communication. Przegl.derm.,Warsz. 47 no.2:111-112 Mr-Apr '60.

1. Z Oddziału Dziecięcego Skorno-Wenerycznego Szpitala Miejskiego nr 2 w Warszawie. Ordynator: prof.dr B. Michalowski.

(DERMATOMYCOSIS ther.)

(GRISEOFULVIN ther.)

MICHALOWSKI, Bohdan; BANASZKIEWICZ, Henryk; CHOWANIEC, Olena

Treatment of mycoses with griseofulvin. Przegl. dermat. 48 no.3:201-219 '61.

1. Z Oddziału Dziecięcego Skorno-Wenerologicznego Szpitala Miejskiego nr 2 w Warszawie. Ordynator: prof. dr B. Michalowski.

(GRISEOFULVIN ther) (DERMATOMYCOSIS ther)

MICHALOWSKI, Bohdan

A bullous form of erythroderma ichthyosiforme congenita. Przegl.
derm. 49:81-84 '62.

1. Z Oddz. Dziecięcego Skorno- Wenerologicznego Szpitala Miejskiego
w Warszawie Ordynator: prof. dr B. Michalowski.
(ICHTHYOSIS)

MICHALOWSKI, Bohdan; BANASZKIEWICZ, Henryk; CHOWANIEC, Olena

A case of congenital ecodermal disorders similar to Rothmund-Werner syndrome. Przegl. dermat. 49 no.2:121-126 '62.

1. Z Oddziału Skorno-Wenerologicznego Dziecięcego Szpitala Miejskiego nr 2 w Warszawie. Dyrektor i ordynator: prof. dr B. Michalowski.

(TELANGIECTASIS) (CATARACT) (PIGMENTATION DISORDERS)
(PROGERIA)

MICHALOWSKI, B.

In memoriam. Stefan Omiecinski, M.D. Przegl. dermat. 51
no.2:249-250 Mr-Ap '64.

MICHALOWSKI, Bohdan; ZAWADZKA, Maria; LAWRYNOWICZ, Edmund

An unusual case of onychomycosis in an infant. Przegl. derm.
51 no.3:257-261. Wy-Je '64

1. Z Oddziału Dermatologii Dziecięcej Szpitalu Miejskiego
No.2 w Warszawie (Ordynator: dr. M. Zawadzka; Konsultant:
prof. dr. B. Michalowski) oraz z Pracowni Analitycznej
Szpitalu Miejskiego No.2 w Warszawie (Kierownik: dr. R. Lawrynowicz).

MICHAŁOWSKI, E.

"Postępowanie w urazach narządów moczopłciowych" (Procedure in lesion of urinary-sexual organs), by E. Michałowski. Reported in New Books (Nowe Książki), No. 14, July 15, 1955

MICHALOWSKI, E.; MODELSKI, W.

Operative therapy of hydronephrosis due to obstruction of uretero-pelvic junction. *Postępy chir.* 3:85-108 1956.

1. Z Oddziału Urologicznego Szpitala A.M. w Krakowie Ordynator
prof. dr. med. E. Michalowski.

(HYDRONEPHROSIS, etiol. & pathogen.

obstruct. of uretero-pelvic junction, surg., technics
(Pol))

(URETERS, dis.

obstruct. of uretero-pelvic junction causing hydronephrosis,
surg. & technics (Pol))

(KIDNEY PELVIS, dis.

same)

MICHALOWSKI, Emil; MODELSKI, Wojciech

Subcapsular nephrectomy with the use of a loop instrument.
Polski przegl. chir. 28 no.2:189-194 Feb 56.

1. Z Oddzialu Urologicznego Panst. Szpitala Klinicznego
w Krakowie.Ord.: doc. dr. E. Michalowski Krakow, ul.
Grzegorzeczka 18.

(KIDNEYS, surg.

nephrectomy, subcapsular, use of loop instrument.

(SURGERY, OPERATIVE, appar. and instruments

loop instrument for subcapsular nephrectomy.

MICHALOWSKI, Emil

Transversal incision of the renal pelvis (pyelotomia post. transversalis). Polski przegl. chir. 28 no.6:579-580 June 56.

1 Z Oddziału Urologicznego P.S.K.A.M. w Krakowie, Krakow, ul. Grzegorzewska 18.

(KIDNEYS, calculi,
surg., transversal pyelotomy (Pol))

MICHALOWSKI, Emil

Lateral flap incision of the anterior urethra in the treatment of its stricture. Polski przegl. chir. 28 no.6:581-584 June 56.

1. Z Oddziału Urologicznego P.S.K.A.M. w Krakowie.
(URETHRA, stenosis,
surg. in male (Pol))

MICHALOWSKI, Emil

~~CONFIDENTIAL~~

So-called phalloplasty in neoplasms of the penis. Polski
przeł. chir. 28 no.11:1143-1148 Nov 56.

1. Z Oddziału Urologicznego P.S.K. A.M. w Krakowie. Krakow,
ul. Grzegorzewska 18.

(PENIS, neoplasms

surg., phalloplastic technic (Pol))

EXCERPTA MEDICA Sec.9 Vol.12/4 1957 April 1958

2387. OPERATIVE TREATMENT OF STENOSIS OF THE ANTERIOR URETHRA -
Le traitement opératoire des rétrécissements de l'urèthre antérieur -
Michalowski E. Serv. d'Urol., Acad. de Méd., Cracovie - J. UROL.
MED. CHIR. 1957, 63/1-2 (26-34) illus. 12

The operation is based on the principle established by Duplay for the cure of hypospadias: the canal is spontaneously restored if in the subcutaneous space a flap of skin or mucosa is left which becomes the centre of epithelialization of the future canal. The value of external urethrotomy in the treatment of stenosis has been well known since the time of Syme. Attention is drawn to the fact that the gap in the urethra formed after longitudinal section of the canal must be covered by a healthy and well vascularized skin flap. It is believed that the method of 'urethrotomy with covering by a skin flap' is very suitable for the treatment of extensive and multiple stenoses of the anterior urethra. The report is based on 7 cases with satisfactory results.

EXCERPTA MEDICA Sec 10 Vol 12/4 Obstetrics Apr 59

694. TOTAL URETHRAL PLASTY - Über totale Harnröhrenplastik - Micha-
lowski E. Urol. Abt., Klin. Krankenh., Kraków - ZBL. GYNÄK. 1958,
80/44 (1714-1717) Illus. 2

In 6 cases of complete loss of the urethra the following operative techniques were applied: (1) plastic repair with a pedicled flap from the anterior vaginal wall gave unsatisfactory results; it was only in a case of large urethral fistula that a flap from the labium majus proved efficacious. (2) Interposition of the uterus was twice done successfully and once with partial success. Other cases failed, because the uterine fundus retracted upward behind the symphysis. (3) Occlusion of the bladder with construction of an infra-symphyseal tunnel with a free epidermal graft (two-stage operation) led to subsequent stenosis of the canal, and occasionally to total occlusion. (4) In one case, a modification of the last-mentioned method was applied, with a double-pedicled flap taken from the left labium majus. The upper pedicle was situated next to the clitoris, the lower one near the posterior commissure. After the wound had healed, the lower pedicle was ligated, at first for a few minutes and then gradually longer, so as to force the flap to adapt itself to vascularization from the upper pedicle only. The main operation was done almost 5 weeks later. A tunnel was made under the symphysis under digital control, the finger being introduced into an existing cystostomy opening. The lower pedicle of the flap was cut and 2 sutures were attached to the free end, which were then used to pull the flap through the canal, and sutured to the cystostomy opening, through which the urine was drained. No catheter was inserted into the new canal. Two weeks later, the outer orifice was widened with a small pedicled skin flap sutured into an incision, because the opening tended to become occluded. Four weeks later the cystostomy was closed. The results, anatomical and functional, were excellent.

Quispel - Schiedam

MICHALOWSKI, Emil: MODLISKI, Wojciech

Partial excision of the kidney. Polski przegl. chir. 32 no.5:
453-458 My '60.

1. Z Oddziału Urologicznego P. S. K. A. M. w Krakowie, Ordynator:
prof. dr. E. Michlaowski.
(NEPHRECTOMY)

MICHALOWSKI, Emil; OSZACKI, Jan

Thorace-abdominal surgical approach to the kidney. Polski
przegl. chir. 32 no.5:465-467 My '60.

1. Z Oddziału Urologicznego; Kierownik: prof. dr. E. Michalowski;
2. Z II Kliniki Chirurgicznej A. M. w Krakowie, Kierownik: doc.
dr. J. Oszacki.

(NEPHRECTOMY)

(ADRENALECTOMY)

MICHALOWSKI, E.

Stricture of the reconstructed urethra in hypospadias. Acta chir.
plast. 4 no.3:246-247 '62.

1. Urologische Abteilung des Klinischen Krankenhauses, Krakow (Polen)
Vorstand: Prof. Dr. E. Michalowski.
(HYPOSPADIAS) (URETHRAL STRICTURE)

MICHALOWSKI, E. MODELSKI, W.

On the surgical treatment of male epispadias. Acta chir. plast. 4
no.4:326-328 '62.

1. Urologische Abteilung des Klinischen Krankenhauses, Krakow (Polen)
Vorstand: Prof. Dr. E. Michalowski.
(EPISPADIAS)

MICHALOWSKI, Emil; MODELSKI, Wojciech

Suction drainage in urological surgery. Polski przegl. chir. 34 no. 6a:
543-545 '62.

1. Z Oddziału Urologicznego AM w Krakowie Kierownik: prof. dr
E. Michalowski.

(UROLOGY surg)

(DRAINAGE)

1. The first of the two main parts of the report is a description of the
Soviet Union's (USSR) military and political situation in the
1970s. The second part is a description of the USSR's military and
political situation in the 1980s. The report is a summary of the
USSR's military and political situation in the 1970s and 1980s.
The report is a summary of the USSR's military and political situation
in the 1970s and 1980s.

MICHALOWSKI, J.

A plant producing prefabricated concrete elements at Lossebaude near Dresden.

I. 36. (RUDOWNICTWO PRZEMYSLOWE) (Warszawa, Poland) Vol. 7, no. 1, Jan. 1958

30: Monthly Index of East European Accession (MIEA) Vol. 7, No. 1, 1958

MICHALOWSKI, J.

Isolated groups of protected species of mountainous amphibians in Poland. p. 23.

CHRONMY PRZYRODE OJCZYSTA. (Panstwowa Rada Ochrony Przyrody)
Krakow. Vol. 15, no. 1, Jan./Feb. 1959
Poland

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959
Uncl.

SITKOWSKI, Wacław; TURSKI, Czesław; MICHALOWSKI, Jacek

Attempted characterization of anatomical changes in the mitral valve. *Polski tygod. lek.* 15 no.30:1140-1142 25 J1 '60.

1. Z Oddziału Chirurgicznego Instytutu Gruslicy w Warszawie;
ordynator: prof. dr med. L.Manteuffel; dyrektor Instytutu
Gruslicy: prof. dr med. W.Jaroszewicz
(MITRAL STENOSIS pathol)

TURSKI, Czesław; SITKOWSKI, Wacław, Jr.; MICHALOWSKI, Jacek

Bronchopleural fistula as a complication of pulmonary resection:
its causes and prevention. Gruzlica 28 no.8:661-664 2g '60.

1. Z Oddziału Chirurgicznego Instytutu Gruzlicy Kierownik:
prof. dr med. L. Manteuffel i z Sanatorium Przeciweguzliczego w
Rudce Dyrektor: dr med. Z. Sładkowski
(BRONCHIAL FISTULA etiol.)
(PNEUMONECTOMY compl.)

SITKOWSKI, Wacław; TURSKI, Czesław; MICHAŁOWSKI, Jacek

Instrumental commissurotomy in mitral stenosis. Polski przeł.
chir. 32 no.12:1183-1186 '60.

1. Z Oddziału Chirurgicznego Instytutu Gruslicy Ordynator: prof.
dr L. Manteuffel Dyrektor Inst. Gruslicy: prof. dr W. Jarešzewicz.

(MITRAL STENOSIS surg)

NOWICKI, Jan; JUSTYNA, Mieczyslaw; MICHALOWSKI, Jacek; SITKOWSKI, Wacław, jr.,
SERAFIN, Roman; SZAGINSKI, Walerian; PACOCHA, Wiesław; TURSKI,
Czesław; MANTEUFFEL-SZOEGL, Leon

Clinical use of Crafoord-Senning's apparatus for extra-corporeal
circulation. Polski przegl. chir. 3 no.7/9:1040-1043 '61.

1. Z Oddziału Chirurgicznego Instytutu Gruźlicy w Warszawie
Kierownik: prof. dr L. Manteuffel-Szoegel.
(HEART MECHANICAL)

SILKOWSKI, Wacław, jr.; JUSTYŃA, Mieczysław; MICHAŁOWSKI, Jacek; WASNIEWSKA, Maria; WARDA, Barbara; GRUNDMAN, Jerzy; NOWICKI, Jan; MANTAU-SZÖGE, Leon

Experience with heart surgery with the use of extracorporeal circulation. Polski prześl. chir. 33 no. 7/8:1044-1047 '61.

1. Z Oddziału Chirurgicznego Instytutu Gruźlicy w Warszawie Kierownik:
prof. dr L. Mantau-Szöge
(HEART MECHANICAL)

MANTEUFFEL-SZOEGE, Leon; NOWICKI, Jan; MICHALOWSKI, Jacek; GRUNDMAN, Jerzy;
TURSki, Czeslaw; PACOCHA, Wieslaw; SITKOWSKI, Wacław; SZAGINSKI,
Walerian

Observations on hemodynamics in moderate and deep hypothermia.
Polski przegl. chir. 33 no.11:1273-1283 '61.

1. Z Oddziału Chirurgicznego Instytutu Gruźlicy w Warszawie Kierownik:
prof. dr L.Manteuffel.
(BLOOD PRESSURE) (HYPOTHERMIA INDUCED)

TURSKI, Czeslaw; SITKOWSKI, Wacław, Jr.; MICHALOWSKI, Jacek

Longitudinal section of the sternum and vascular cannulation technique
in open heart surgery. Polski przeegl. chir. 34 no.3:227-233 '62.

1. Z Oddzialu Chirurgicznego Instytutu Gruźlicy Kierownik: prof.
dr. L. Mantouffel.

(HEART SURGERY) (STERNUM surg)

TURSKI, Czeslaw; MICHALOWSKI, Jacek

Surgical treatment of traumatic aneurysm and arteriovenous fistula. Polski przezl. chir. 35 no.2 127-131 '63.

1. Z Oddzialu Chirurgicznego Instytutu Gruzlidy Kierownik
prof. dr L. Manteuffel.

(ANEURYSM) (FISTULA, ARTERIOVENOUS)
(VASCULAR SURGERY) (WOUNDS AND INJURIES)

TURSKI, C.; SITKOWSKI, W.; jr.; MICHALOWSKI, J.

Recurrence of mitral stenosis. Kardiol. pol. 6 no.2:77-79 '63.

1. Z Oddziału Chirurgicznego Instytutu Gruźlicy w Warszawie

Kierownik: prof. dr L. Manteuffel.

(MITRAL STENOSIS) (HEART SURGERY)

NOWICKI, J.; MICHALOWSKI, J.

Surgical therapy of atrial defects. Role of extracorporeal circulation. Kardiologia polska 6 no.1:9-13 '63.

1. Z Oddziału Chirurgicznego Instytutu Gruźlicy w Warszawie
Kierownik Oddziału: prof. dr L. Manteuffel.

(HEART SEPTAL DEFECTS, ATRIAL)

(HEART SURGERY) (HEART, MECHANICAL)

TURSKI, Czeslaw; MICHALOWSKI, Jacek

2 cases of pleuropneumectomy with simultaneous thoracoplasty and reconstruction of the thoracic wall. Gruzlica 31 no.4:343-346 '63.

1. Z Oddzialu Chirurgicznego Instytutu Gruzlicy w Warszawie
Kierownik: prof. dr med. L. Manteuffel Dyrektor: prof. dr
med. W. Jaroszewicz.

(PNEUMONECTOMY) (THORACOPLASTY)

TURSKI, Czesław; SITKOWSKI, Wacław, jr.; MICHALOWSKI, Jacek

Air spaces following pneumonectomy. Their causes and preventive methods. Gruzlica 31 no.12:1223-1230 D'63.

1. Z Oddziału Chirurgicznego Instytutu Gruzlicy (kierownik: prof.dr med. L.Manteuffel) i z Sanatorium Przeciwgruzliczego w Rudce (dyrektor: dr med. S.Sładkowski.)

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MICHALOWSKI, Jacek; NOWICKI, Jan

Methods facilitating open heart surgery. Pol. przegl. chir.
35 no.10/11:1097-1099 '63.

1. Z Oddzialu Chirurgicznego Instytutu Gruźlicy Kierownik:
prof. dr L. Manteuffel.

(HEART SURGERY) (HEART, MECHANICAL)
(HYPOTHERMIA, INDUCED)

TURSKI, Czeslaw; MICHALOWSKI, Jacek

Surgical treatment of pulmonary stenosis. Pol. pr.egl. chir.
36 no.12:1411-1414 D '64

1. Z Kliniki Chirurgicznej Instytutu Gruźlicy w Warszawie
(Kierownik: prof. dr. L. Manteuffel).

MANTEUFFEL-SZCZEGE, Leon; MICHALOWSKI, Jacek; GRUNIMAN, Jerzy;
PACOGHA, Wieslaw

On the possibility of continuing blood circulation after
heart arrest. Pol. tyg. lek. 20 no.28:1035-1039 12.7.75.

1. Z Kliniki Chirurgicznej Instytutu Gruzlicy kierownik:
prof. dr. L. Manteuffel-Szczege .

MICHALOWSKI, Jacek, MANTEUFFEL-SZOEGH, Leon

An attempt to analyze of hemodynamic changes during the use
of extracorporeal circulation. Pol. tyg. lek. 20 no.20:
1094-1095 19 J1 '65.

1. Z Kliniki Chirurgicznej Instytutu Gruźlicy (Kierownik:
prof. dr. med. Leon Manteuffel).

ACHTELNIK, Werner; MICHALOWSKI, Jerzy

The testis of the male *Xenopus laevis* Daud. as useful material for studies on, and demonstration of animal meiosis. *Przeegl zoolog* 6 no.3:238 '62.

1. Katedra Biologii Ogolnej, Slaska Akademia Medyczna, Rokitnica-
7abrze 8.

MICHALOWICZ, Jerzy

Extraordinary General Meeting of Delegates of the Association
of Engineers and Technicians of the Chemical Industry and of
the Building Materials Industry. Chemik 16 no.12:379-380
D*63.

MICHAEL KILBY, 1944-1984

1. Michael Kilby, a biologist, was a member of the
U.S. National Academy of Sciences (1984) and the
National Research Council (1984). He was a member of the
National Academy of Sciences (1984) and the
National Research Council (1984).

2. Michael Kilby, a biologist, was a member of the
U.S. National Academy of Sciences (1984) and the
National Research Council (1984). He was a member of the
National Academy of Sciences (1984) and the
National Research Council (1984).

MICHALOWSKI, K.

"Poland's contribution to archaeological research into antiquity"

p. 20 (Review, Journal on Polish science and scientific publications issued
by the Polish Academy, Vol. 2, no. 1/2, Jan/June 1957, Warsaw, Poland)

Monthly Index of East European Accessions (EEAI) LC, Vol. 8, No. 1, Jan. 59.

MIKHALOVSKIY, Kazimir (Michalowski, Kazimierz), prof.

Excavations of ancient Myrmekion. Nauka i zhizn' 24 no.9:54-56 S
'57. (MLBA 10:9)

1. Deystvitel'nyy chlen Pol'skoy Akademii nauk, Varshava.
(Cimmerian Bosporus (Kingdom)--Excavations (Archaeology))

MICHALOWSKI, Kazimierz

The Polish archaeological reconnaissance trip to Fubia, January-February, 1958. Review Pol Academy 4 no.3:47-85 '59. (KEAI 9:6)

1. Professeur-visiteur à la Faculté de Lettres de l'Université d'Alexandrie. Directeur de la Mission Archéologique Polonaise en Egypte.

(Egypt-- Antiquities)

MICHALOWSKI, Kazimierz, professor

Research Center for Mediterranean Archaeology; its excavations
in the Middle East. Review Pol Academy 7 no.2:41-52 Ap/Jl
'62.

1. Member of the Polish Academy of Sciences, Warsaw, and Director
of the Research Centre for Mediterranean Archaeology, Warsaw.

____ MICHALOWSKI, K.

Rate of increasing yields in Poland during the years 1923-1938
and 1946-1961. Postępy nauk roln 9 no.6:33-40 K-D '62.

MICHALOWSKI, Kazimierz, prof. dr.

The Institute of Mediterranean Archaeology and its excavation activities
in the Near East in 1961. Nauka polska 10 no.2:75-94 '62.

1. Kierownik Zakladu Archeologii Sroziemnomorskiej, Warszawa, Palac
Kultury i Nauki.

u Distr: 4E34/4E2c

✓ Temperature measurement of air and flue gases in open-hearth furnaces by means of section thermocouples. M. Michalowski. *Prace Inst. Hutnic.* 18, 147-51 (1966).
A discussion of the operating principles of a section thermocouple and its application to the measurements of temp. of hot gases in open-hearth furnaces. The construction of an app. which gives the most reliable results is described. The temp. of the hot gases in industrial furnaces can be measured accurately only by means of a section thermocouple.
M. Solominacsky

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18(5)

AUTHORS:

Mikulski, Jan, and Michałowski: Matlew. Masters of Engineering POL/79-59-7/8-4/24

TITLE:

Changes in the Output and Heat Consumption of Open-Hearth Furnaces During Inter Repair Periods

PERIODICAL:

Hutnik, 1959, Nr 7-8, pp 271-276 (POL)

ABSTRACT:

In a previous article (Hutnik, 1959, Nr 2) the authors showed that it is especially profitable to overload an open-hearth furnace in the early stages of an operating period since output is then highest and unitary heat consumption lowest. The purpose of the present article is to see how these indices change in order to determine when it is most profitable to bank and repair a furnace in view of the fact that output is falling off and heat consumption increasing. The factor which decides when a furnace is to be banked is of course the state of its lining. But in practice, many furnaces continue operating uneconomically when the production plan has not been achieved. The results summarized in this article are based on figures compiled

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POL/39 59-7/8-4/24

Changes in the Output and Heat Consumption of Open-Hearth Furnaces
During Inter-Repair Periods

over 2 and 1/2 years with respect to a number of open-hearth furnaces with capacities ranging from 50 to 370 tons. Figures 1, 2 and 3 show the results of these observations for furnaces of 50, 100 and 370 tons respectively. The thicker lines show the beginning and end of periods of operation, the figures show the output and heat consumption indices respectively with the average for the period being taken as 100, the shaded areas represent major overhauls and the arrows minor repairs. Figures 4 and 5 show output and heat consumption fluctuations for a 70 ton and a 100 ton furnace respectively over a period of almost 5 months, the continuous line representing output and the dashes heat consumption. On the basis of these observations, the authors reach the following conclusions: the phase of maximum output and minimum heat consumption comes towards the end of the first or at the beginning of the second month of a period of operation. Minor or "cold" repairs significantly improve the furnace's

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Changes in the Output and Heat Consumption of Open-Hearth Furnaces
During Inter-Repair Periods

POL/39-59-7/8-4/24

work, increasing output and decreasing heat consumption. Shortening of the respective periods of operation increases overall average output. As shown in table 1, the highest average output is achieved with 3-month periods of operation. The authors make one important reservation: the heat used up in firing the furnace after banking and repairs has not been taken into account. Hence the figures given for heat consumption are not entirely accurate, since furnace firing is in general an important and non-productive loss of heat. There are 9 graphs and 2 tables.

ASSOCIATION: Zjednoczenie hutnictwa zelaza i stali - Katowice
(Central Board of Ferrous and Steel Metallurgy - Katowice) (Mikulski); Instytut metalurgii zelaza - Gliwice
(Institute of Ferrous Metallurgy - Gliwice) (Michałowski)

Card 3/3

18(5)

POL/79-26-1-1/10

AUTHOR:

Michalowski, Maciej, and Mikulski, Jan, Engineers

TITLE:

An Attempt to Determine Mathematically the Dependence Between the Productive Capacity of Open Hearth Furnaces and their Consumption of Thermal Units on the One Hand and the Degree of Furnace Supercharging on the Other

PERIODICAL:

Hutnik, 1959, Vol 26, Nr 2, pp 18-63 (Poland)

ABSTRACT:

In this article, an attempt is made to show the mathematical dependence between the productive capacity of open hearth steel furnaces and their consumption of thermal units on the one hand and the degree of furnace supercharging on the other. The experiments were directed by the authors on furnaces with capacities of 50 and 100 tons. During a period of 18 weeks, it is shown by the aid of drawings that the productive capacity of furnaces of that size depends on the weight of the charges. With the 50 ton furnace in good condition, a maximum production capacity of 64 to 66 tons and in bad condition of 61 to 63 tons was reached. Being in good condition, the 100 tons

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POL/39-26-2-2/10

An Attempt to Determine Mathematically the Dependence Between the Productive Capacity of Open Hearth Furnaces and their Consumption of Thermal Units on the One Hand and the Degree of Furnace Supercharging on the Other

furnace simultaneously raised its production capacity equally with the rise in weight of the charges to the highest possible load. The experiments had the following results: 1) Higher charge weights result in a higher productive capacity (tons/hour) of the furnace. In some furnaces, productive capacity rises only to a certain amount of the charge weight; 2) The rise in weight of the charges decreases the consumption of thermal units (kcal/ton). It could not be established whether supercharging would be negative to the consumption of thermal units; 3) A comparison of the experimental results of both quoted dependencies is possible only with similar technical conditions of the furnaces; 4) The most rational method for a mathematical pick-up of the above-mentioned dependence will be the percentage of the change in productive capacity and consumption of thermal units in comparison to 1% of the change in weight of the charges. This will

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POL/33-26-2-2/10

An Attempt to Determine Mathematically the Dependence Between the Productive Capacity of Open Hearth Furnaces and their Consumption of Thermal Units on the One Hand and the Degree of Furnace Supercharging on the Other

show mathematically correctly, what output capacity may be expected of the furnace; 5) Furnace overload pays best during the first phase of the experiment (Tables 1 and 2 and Figs. 7 and 9), as the change in productive capacity and consumption of thermal units in comparison to the change of the charge weights is highest during this time. The lower the condition of the furnace, the smaller the advantages of furnace supercharging or overload. The article only mentions some of the problems of furnace overload. There are 6 diagrams, 3 graphs and 2 tables

ASSOCIATION: IMZ, Gliwice, ZHZS, Katowice

Card 3/3

MIKHALOWSKI, Maciej; GEBLICHKA, Adzislav

Structural adjustment of open-hearth furnaces to automation.
Problemy proj hut maszyn 10 no.12:368-372 Div.

.. Instytut Metalurgii Zelaza Mikromet, Gliwice.

MICHALOWSKI, Maciej, dr inż.

Experiments in design and utilization of waste-heat boilers cooperating
with converters with oxygen blast. Energetyka przem 10 no.10:348-349
0 '62.

MICHALOWSKI, Maciej, dr. inz.

Automation of the open hearth process. Wiad hutn 18
no.4:103-107 Ap '62.

WARCZEWSKI, Zdzislaw, doc.mgr inz.; MICHALOWSKI, Maciej, dr inz.

The charge loading and melting rates as factors for the increase
of the per hour output of open-hearth furnaces. Hutnik P 29
no.9:317-323 S '62.

MICHALOWSKI, Maciej, dr inz.

Ways of combustion control and supervision in open hearth
furnaces. Wiad hut 19 no.2:37-40 P '63.

MICHALOWSKI, Maciej, dr inz.

Conversion of open-hearth steelworks to fuels of high heating quality.
Wlad hut 19 no.4: 65-89 Ap '63.

MICHALOWSKI. Maciej, dr inz.

Change of the power structure and indexes of per unit heat
consumption in open hearth steelworks. Wiad hut 19 no.10:
265-268 0 '63

WARCZEWSKI, Zdzislaw, doc.; MICHALOWSKI, Maciej, dr

Automation of open-hearth steel mills. Hutnik P 30 no.2:52-60
F '63.

MICHALOWSKI, Maciej, dr inz.

"Fuel oil in metallurgy" by O. Pawlik [O. Pavlik], J. Dufka,
K. Klima. Reviewed by Maciej Michalowski. Hutnik P 30 no.6:
201 Je '63.

MICHALOWSKI, Maciej, dr inż.

Use of fuel oil in the steel industry. Wiadomości Techniczne
186-190 J1-Ag 186-190 '63.

MICHALOWSKI, Maciej, dr inz.

Inspection and measuring systems in modern open-hearth furnaces. Wiad hut 19 no.11:311-314 N'63.

MAJEWSKI, Z., mgr inz.; MICHALOWSKI, M., dr inz.; MIKULSKI, J.,
dr inz.

Individual index of heat consumption of open-hearth furnaces.
Hutnik P 30 no. 5: 143-147 My '63.

MICHALOWSKI, Maciej, dr inz.

The capacity of an open-hearth furnace and its production
index. Wiad hut 15 [i.e. 20] no.6:177-179 Je '64.

MICHALOWSKI, Maciej, dr inz.

Metallurgical reactions affecting the results of combustion in
an open hearth furnace. Wiad hut 15 no. 7/8:216-219 J1-Ag '64.

MIKULSKI, Jan, dipl. ing.; MICHALOWSKI, Maciej, dipl. ing.

Mathematical evaluation of changes in the output and heat consumption of open-hearth furnaces observed during the period between repairs. Energia atom 17 no.9:402-407 S '64.